

MS&E 91SI: U.S. National Cybersecurity

Fall 2004

Welcome to MS&E 91SI U.S. National Cybersecurity, a new student-initiated course sponsored by the interdisciplinary Stanford Cybersecurity Program.

Description

As the U.S. and the world become increasingly reliant on digital systems and the public Internet, the security and reliability of these complex systems becomes increasingly critical. Ensuring that our digital infrastructure can meet these escalating demands necessitates development of both the right technology and the right public policy. This interdisciplinary course will draw on speakers and research from the fields of engineering, public policy, law and economics in an effort to investigate and determine whether today's Internet is an appropriate platform on which to operate critical infrastructure services that affect U.S. national security.

Course Logistics

Time: Wednesday, 4:15 – 6:30 PM
Location: TBD
Grading and Units: 2 units, S/NC only
Class size: Enrollment limited to 20 students

Prerequisites: There are no technical or policy prerequisites; curiosity and interest are the only requirements. The course is particularly relevant for students interested in independent research or honors thesis work in the area of cybersecurity.

Website: <http://msande91si.stanford.edu>

Course Staff

Faculty Sponsor: William J. Perry
Student Facilitators: Martin Casado <casado@stanford.edu>
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Schedule

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| September 30 | Introduction: The Cybersecurity Challenge |
| October 5 (Tues.) | Tech Breakout I: Internet Basics |
| October 7 | How To Think About Cybersecurity |
| October 12 (Tues.) | Tech Breakout II: Viruses, Worms, Firewalls and Crypto
Guest Speaker: Tal Garfinkel, Computer Science |
| October 14 | An Industry Perspective
Guest Speaker: TBA |
| October 21 | Cybersecurity Policy |
| October 28 | Cybersecurity and Law
Guest Speaker: Jennifer Granick, Stanford Law School |
| November 4 | Security Metrics and Risk Management
Guest Speaker: Kevin Soo Hoo, Sygate |
| November 11 | Assessing the Threat
Guest Speaker: Peter Neumann, SRI |
| November 18 | What Do We Want in a Future Information Infrastructure?
Guest Speaker: David Alderson, CalTech |
| November 22 | Liability, Negligence and Cyber-Insurance
Guest Speaker: Erin Kenneally, San Diego Supercomputing Center |
| December 2 | Legislative Debate |